



SOCIUS ENGG. TECH. PVT. LTD.

AN ISO 9001: 2015, MSME. CERTIFIED COMPANY

FIELD DENSITY OF WMM

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Avalahalli Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO:	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	15-07-22
Submission Date:	22-08-22

Test Results – Existing Wet Mix Samples

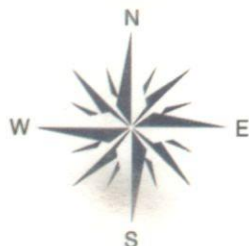
	Location	Modified proctor density g/cc	OMC In %	Field Density in g/CC	Field Moisture Content in %	Compaction In %
1	Avalahalli Lake	2.24	5.11	2.20	5.04	98.66
2	Avalahalli Lake	2.25	5.15	2.21	5.05	98.21
3	Avalahalli Lake	2.24	5.11	2.25	5.0	98.19
4	Avalahalli Lake	2.24	5.10	2.20	5.02	98.64

AB
HE

A.E.E. (Project)



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AN ISO 9001: 2015, MSME. CERTIFIED COMPANY

FIELD DENSITY OF WMM

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Harohalli Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO:	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	16-07-22
Submission Date:	22-08-22

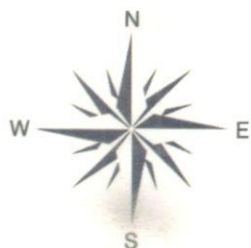
Test Results – Existing Wet Mix Samples

Sample NO	Location	Modified proctor density g/cc	OMC In %	Field Density in g/CC	Field Moisture Content in %	Compaction In %
1	Harohalli Lake	2.21	5.15	2.20	5.03	98.7
2	Harohalli Lake	2.27	5.12	2.19	5.05	98.20
3	Harohalli Lake	2.27	5.12	2.19	5.05	98.20

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FIELD DENSITY OF WMM

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Major Sandeep Unnikrishanan road
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO:	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	16-07-22
Submission Date:	22-08-22

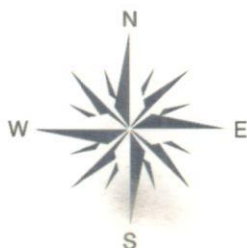
Test Results – Existing Wet Mix Samples

Sample NO	Location	Modified proctor density g/cc	OMC In %	Field Density in g/CC	Field Moisture Content in %	Compaction In %
1	Major Sandeep Unnikrishanan road	2.24	5.10	2.20	5.04	98.66

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FIELD DENSITY OF WMM

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Allalasandra Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO:	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	17-07-22
Submission Date:	22-08-22

Test Results – Existing Wet Mix Samples

Sample NO	Location	Modified proctor density g/cc	OMC In %	Field Density in g/CC	Field Moisture Content in %	Compaction In %
1	Allalasandra Lake	2.24	5.10	2.20	5.04	98.66
2	Allalasandra Lake	2.25	5.15	2.21	5.05	98.21
3	Allalasandra Lake	2.23	5.19	2.23	5.04	98.19
4	Allalasandra Lake	2.20	5.11	2.21	5.03	98.62

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TEST REPORT ON CEMENT (Material Tests for 1:3:6)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Harohalli Lake, Avalahalli Lake, Major Sandeep Unnikrishanan road
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	21-07-22
Submission Date:	22-08-22

SL no	Description	Test Method as per IS	Test Result	Remarks
1	c) Initial setting time	IS: -4031 (part-5)	128 Minutes	ok
	d) Final setting time	IS: -4031 (part-5)	460Minutes	ok
2	Soundness	IS: 4031 (part-3) La-Chatelier method	3.0 mm	ok
3	Standard Consistency	IS: -4031 (part-4)	25.00%	ok
4	Compressive Strength			
	c) 3 Days	Mpa	26	ok
	d) 7 Days	Mpa	37	ok

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TEST REPORT ON FINE AGGREGATE (Material Tests for 1:3:6)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Harohalli Lake, Avalahalli Lake, Major Sandeep Unnikrishanan road
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	21-07-22
Submission Date:	22-08-22

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
10	0	0	0	100	100
4.75	30	30	2.22	97.78	90-100
2.36	62	92	6.81	93.82	75-100
1.18	90	182	13.48	86.52	55-90
600 Micron	480	662	49.03	50.97	35-59
300 Micron	358	1020	75.55	24.45	8-30
150 Micron	325	1345	99.62	0.38	0-10

SAMPLE ID: Sand Total Wt of Aggregate in Gms: 1350



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TEST REPORT ON COARSE AGGREGATE (Material

Tests for 1:3:6)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Harohalli Lake, Avalahalli Lake, Major Sandeep Unnikrishanan road
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	21-07-22
Submission Date:	22-08-22

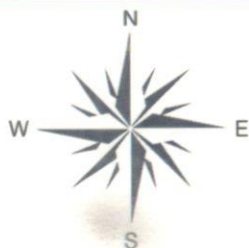
IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
40	0	0	0	100	100
20	195	195	8.125	91.87	95-100
10	1150	1345	56.04	43.96	25-55
4.75	955	2300	95.87	4.125	0-10

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Total Wt of Aggregate in Gms: 2300



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TEST REPORT ON CEMENT (Material Tests for 1:3:6)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Valmiki Park
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	22-07-22
Submission Date:	22-08-22

SL no	Description	Test Method as per IS	Test Result	Remarks
1	g) Initial setting time	IS: -4031 (part-5)	128 Minutes	ok
	h) Final setting time	IS: -4031 (part-5)	460Minutes	ok
2	Soundness	IS: 4031 (part-3) La-Chatelier method	3.0 mm	ok
3	Standard Consistency	IS: -4031 (part-4)	25.00%	ok
4	Compressive Strength			
	g) 3 Days	Mpa	26	ok
	h) 7 Days	Mpa	37	ok

A.E.E. (Project)



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TEST REPORT ON FINE AGGREGATE (Material Tests for 1:3:6)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Valmiki Park
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	22-07-22
Submission Date:	22-08-22

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
10	0	0	0	100	100
4.75	30	30	2.22	97.78	90-100
2.36	62	92	6.81	93.82	75-100
1.18	90	182	13.48	86.52	55-90
600 Micron	480	662	49.03	50.97	35-59
300 Micron	358	1020	75.55	24.45	8-30
150 Micron	325	1345	99.62	0.38	0-10

SAMPLE ID: Sand Total Wt. of Aggregate in Gms: 1350



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TEST REPORT ON COARSE AGGREGATE(Material

Tests for 1:3:6)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Valmiki Park
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	22-07-22
Submission Date:	22-08-22

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
40	0	0	0	100	100
20	195	195	8.125	91.87	95-100
10	1150	1345	56.04	43.96	25-55
4.75	955	2300	95.87	4.125	0-10

Total Wt of Aggregate in Gms: 2300



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TEST REPORT ON COARSE AGGREGATE

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Valmiki Park
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	20-07-22
Submission Date:	22-08-22

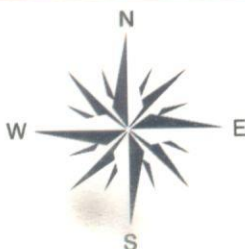
IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
40	0	0	0	100	100
20	195	195	8.125	91.87	95-100
10	1150	1345	56.04	43.96	25-55
4.75	955	2300	95.87	4.125	0-10


A.E.E. (Project)

Total Wt of Aggregate in Gms: 2300







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TEST REPORT ON COARSE AGGREGATE

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Yelahanka Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	17-09-20
Submission Date:	22-08-22

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
40	0	0	0	100	100
20	195	195	8.125	91.87	95-100
10	1150	1345	56.04	43.96	25-55
4.75	955	2300	95.87	4.125	0-10

Total Wt of Aggregate in Gms: 2300



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TEST REPORT ON CEMENT

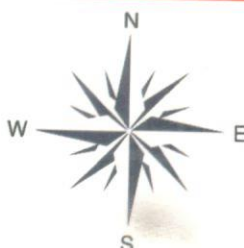
Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Yelahanka Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	19-09-20
Submission Date:	22-08-22

SL no	Description	Test Method as per IS	Test Result	Remarks
1	e) Initial setting time	IS: -4031 (part-5)	128 Minutes	ok
	f) Final setting time	IS: -4031 (part-5)	460Minutes	ok
2	Soundness	IS: 4031 (part-3) La-Chatelier method	3.0 mm	ok
3	Standard Consistency	IS: -4031 (part-4)	25.00%	ok
4	Compressive Strength			
	e) 3 Days	Mpa	26	ok
	f) 7 Days	Mpa	37	ok

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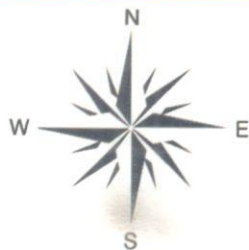
TEST REPORT ON CEMENT

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Valmiki Park
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	20-07-22
Submission Date:	22-08-22

SL no	Description	Test Method as per IS	Test Result	Remarks
1	i) Initial setting time	IS: -4031 (part-5)	128 Minutes	ok
	j) Final setting time	IS: -4031 (part-5)	460Minutes	ok
2	Soundness	IS: 4031 (part-3) La-Chatelier method	3.0 mm	ok
3	Standard Consistency	IS: -4031 (part-4)	25.00%	ok
4	Compressive Strength			
	i) 3 Days	Mpa	26	ok
	j) 7 Days	Mpa	37	ok



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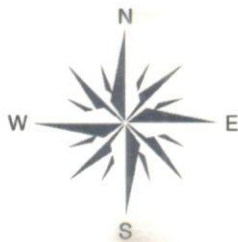
Test Report On Concrete Core (Kerb Stone)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Harohalli Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO:	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Date of Testing:	28-07-22
Submission Date:	22-08-22

Sl. No.	Dia of Core D(mm)	Height of Core H(mm)	Core Wt. (Kg)	Density of Core(Kg /M ²)	H/D	Correction Factor (Based on H/D)	Failure Load (KN)	Core Strength (N/mm ²)	Correction Factor for the Dia.(Strength of the Core X 1.08)	Corrected Cylinder Compressive strength(N/mm ²)	Equivalent Cube Compressive strength(N/mm ²)
1	50.00	78	0.385	2513.83	1.56	0.950	25.15	12.18	13.85	13.14	16.43
2	50.00	79	0.394	2540.03	1.58	0.960	25.37	12.92	13.95	13.40	16.75
3	50.00	80	0.401	2552.85	1.60	0.955	25.65	13.06	14.11	13.47	16.84



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Test Report On Concrete Core (Kerb Stone)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Harohalli Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO:	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Date of Testing:	28-07-22
Submission Date:	22-08-22

Sl. No.	Dia of Core D(mm)	Height of Core H(mm)	Core Wt. (Kg)	Density of Core(Kg /M ²)	H/D	Correction Factor (Based on H/D)	Failure Load (KN)	Core Strength (N/mm ²)	Correction Factor for the Dia.(Strength of the Core X 1.08)	Corrected Cylinder Compressive strength(N/m ²)	Equivalent Cube Compressive strength(N/mm ²)
1	50.00	78	0.385	2513.83	1.56	0.950	25.15	12.18	13.85	13.14	16.43
2	50.00	79	0.394	2540.03	1.58	0.960	25.37	12.92	13.95	13.40	16.75
3	50.00	80	0.401	2552.85	1.60	0.955	25.65	13.06	14.11	13.47	16.84



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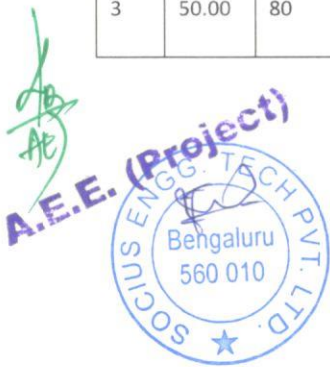
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Test Report On Concrete Core (Kerb Stone)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Harohalli Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO:	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Date of Testing:	28-07-22
Submission Date:	22-08-22

Sl. No.	Dia of Core D(mm)	Height of Core H(mm)	Core Wt. (Kg)	Density of Core(Kg /M ²)	H/D	Correction Factor (Based on H/D)	Failure Load (KN)	Core Strength (N/mm ²)	Correction Factor for the Dia.(Strength of the Core X 1.08)	Corrected Cylinder Compressive strength(N/mm ²)	Equivalent Cube Compressive strength(N/mm ²)
1	50.00	78	0.385	2513.83	1.56	0.950	25.15	12.18	13.85	13.14	16.43
2	50.00	79	0.394	2540.03	1.58	0.960	25.37	12.92	13.95	13.40	16.75
3	50.00	80	0.401	2552.85	1.60	0.955	25.65	13.06	14.11	13.47	16.84



Signature



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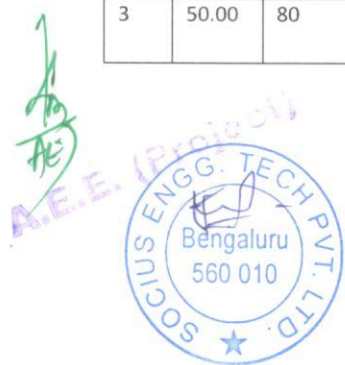
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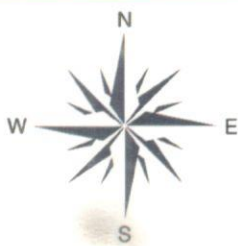
Test Report On Concrete Core (Kerb Stone)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Harohalli Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO:	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Date of Testing:	28-07-22
Submission Date:	22-08-22

Sl. No.	Dia of Core D(mm)	Height of Core H(mm)	Core Wt. (Kg)	Density of Core(Kg /M ²)	H/D	Correction Factor (Based on H/D)	Failure Load (KN)	Core Strength (N/mm ²)	Correction Factor for the Dia.(Strength of the Core X 1.08)	Corrected Cylinder Compressive strength(N/mm ²)	Equivalent Cube Compressive strength(N/mm ²)
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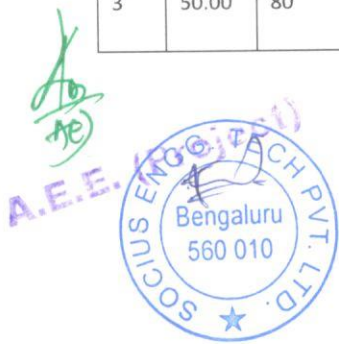
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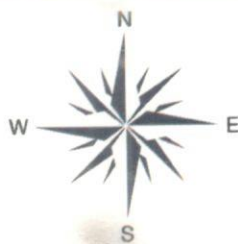
Test Report On Concrete Core (Kerb Stone)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Avalahalli Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO:	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
Condition of Samples:	Satisfactory
Test According to:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Date of Testing:	29-07-22
Submission Date:	22-08-22

Sl. No.	Dia of Core D(mm)	Height of Core H(mm)	Core Wt. (Kg)	Density of Core(Kg /M ²)	H/D	Correction Factor (Based on H/D)	Failure Load (KN)	Core Strength (N/mm ²)	Correction Factor for the Dia.(Strength of the Core X 1.08)	Corrected Cylinder Compressive strength(N/mm ²)	Equivalent Cube Compressive strength(N/mm ²)
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Test Report On Concrete Core (Kerb Stone)

Name of work:	Providing Stone benches in ward No.01,02,03 & 04
Location:	Avalahalli Lake
Client:	Assistant Executive Engineer Project, Yelahanka BBMP, Bangalore
Name of the Agency:	Shri B B Umesh
Online WO:	EE(PROJECT)/YNK ZONE/WO/07/22-23 DATED: 15/07/2022
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